1/1 point

1/1 point

1. For the the following code:

model = Sequential([

Dense(units=25, activation="sigmoid"),

Dense(units=15, activation="sigmoid"),

Dense(units=10, activation="sigmoid"),

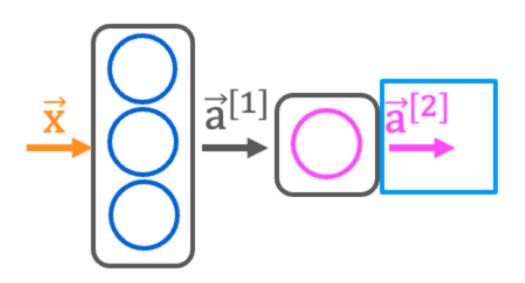
Dense(units=1, activation="sigmoid")])

This code will define a neural network with how many layers?

- 4



Yes! Each call to the "Dense" function defines a layer of the neural network.



x = np.array([[200.0, 17.0]])layer_1 = Dense(units=3, activation='sigmoid') $a1 = layer_1(x)$

- 2. How do you define the second layer of a neural network that has 4 neurons and a sigmoid activation?
 - O Dense(units=[4], activation=['sigmoid'])
 - O Dense(units=4)
 - O Dense(layer=2, units=4, activation = 'sigmoid')
 - Dense(units=4, activation='sigmoid')

⊘ Correct

Yes! This will have 4 neurons and a sigmoid activation.

1/1 point

Feature vectors

			Catalc	VCCLOIS
temperature		Good coffee?	x = np.array([[200.0, 17.0]])	
	(Celsius)	(minutes)	(1/0)	[[200.0, 17.0]]
	200.0	17.0	1	
	425.0	18.5	0	

- 3. If the input features are temperature (in Celsius) and duration (in minutes), how do you write the code for the first feature vector x shown above?
 - \bigcirc x = np.array([[200.0 + 17.0]])
 - \bigcirc x = np.array([[200.0],[17.0]])
 - \bigcirc x = np.array([['200.0', '17.0']])
 - x = np.array([[200.0, 17.0]])

⊘ Correct

Yes! A row contains all the features of a training example. Each column is a feature.